

# KIMIA O-760

## Technical data sheet



www.kimioresin.com

### Unsaturated polyester resin

#### Orthophthalic Polyester Resin

##### Product Description:

Kimia 760-O is an un-promoted isophthalic based unsaturated polyester resin with low color and medium viscosity, limited shrinkage and water absorption and very good mechanical properties for ambient temperature cure with MEK peroxide.

##### Characteristics and Advantages:

- Low color
- Medium viscosity
- Limited shrinkage and water absorption
- Excellent adhesion to glass fibers
- Very good mechanical and chemical properties
- Water Contact/ hygienic approval

##### Uses:

- Manufacturing pipes
- Manufacturing tanks and reservoirs
- Fabricating structural hygienic fittings
- Marine vessels and boats
- Pultrusion

##### Technical Properties:

###### Physical data in a liquid state at 25°C

Properties	Unit	Value	Test method
Appearance	NA	Clear	NA
Color	Gardner	Max 2	ASTM D1544
Viscosity (at 25°C)	mPa.s (cP)	600-900	ISO 2555
Density (at 23°C)	g/cm <sup>3</sup>	1.1300	ASTM D1475
Acid number	mg KOH/g	Max 20	ASTM D1639
Solid content	wt%	64±2	ASTM D1259
Gel time*	min	8min	ASTM D2471
Curing time	min	8-25min	ASTM D2471
Peak exothermic temperature	°C	Max 210	ASTM D2471
Water absorption	wt%	Max 0.25	ISO 62
Flash point (open cup)	°C	2	ASTM D92

This information is continuously measured and considered a part of the product's technical specifications, and their presence is only for a better description of the product.

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### Typical non-reinforced casting properties

Properties	Unit	Value	Test method
Tensile strength	MPa	Min 70	ISO 527-2
Tensile elongation	%	9.4	ISO 527-2
Tensile modulus	MPa	750	ISO 527-2
Flexural strength	MPa	Min 130	ISO 178
Flexural modulus	MPa	2473	ISO 178
Heat distortion temperature (HDT)	°C	Min 70	ASTM D648
Hardness (Barcol)	NA	Min 45	ASTM D2583
Linear shrinkage ( $\Delta L/L$ )	%	Max 1.3	ASTM D2566

The usual protective measures employed during the handling of Unsaturated Polyester Resins should be observed. Further product safety information can be obtained from our Material Safety Data Sheet which is available on request.

**Packaging:** 200 kg (net) in steel drums

**Storage:** Store in a cool place below 25 °C and away from moisture and direct sunlight. Under the above-mentioned storage conditions, the shelf life of the resin will be at least 6 months ex-works.

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